Installation Instructions

LMP Panel Controller

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

- Do not use outdoors.
- Use only indoors in dry, relatively clean, non-condensing humidity environments.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than its intended use.

SAVE THESE INSTRUCTIONS

To reduce the risk of death, injury or property damage from fire, electric shock, cuts, abrasions, falling parts, and other hazards:

- Service of the equipment must be performed by qualified service personnel.
- Installation and maintenance must be performed by a person familiar with the construction and operation of this product and any hazards involved. All applicable codes and ordinances must be followed.
- Read this document before installing, servicing, or maintaining this equipment. These instructions do not cover all installation, service, and maintenance situations. If your situation is not covered, or if you do not understand these instructions or additional information is required, contact Acuity Controls.

WARNING

Before installing, servicing, or maintaining this equipment, follow these general precautions.

To reduce the risk of electrocution:

- Make sure the equipment is properly grounded.
- Always de-energize any equipment before connecting to, disconnecting from, or servicing the equipment.

To reduce the risk of fire:

- Use supply conductors with a minimum installation temperature rating as specified.

To reduce the risk of personal injury from cuts, abrasions:

- Wear gloves to prevent cuts or abrasions from sharp edges when removing from carton, handling and maintaining this equipment.
- Do not install damaged equipment.

Acuity Controls, a division of Acuity Brands Inc., assumes no responsibility for claims arising out of improper or careless installation or handling of this product.

SAVE THESE INSTRUCTIONS

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Part No. 912-00001-011 Rev E

Installation Instructions

LMP Panel Controller

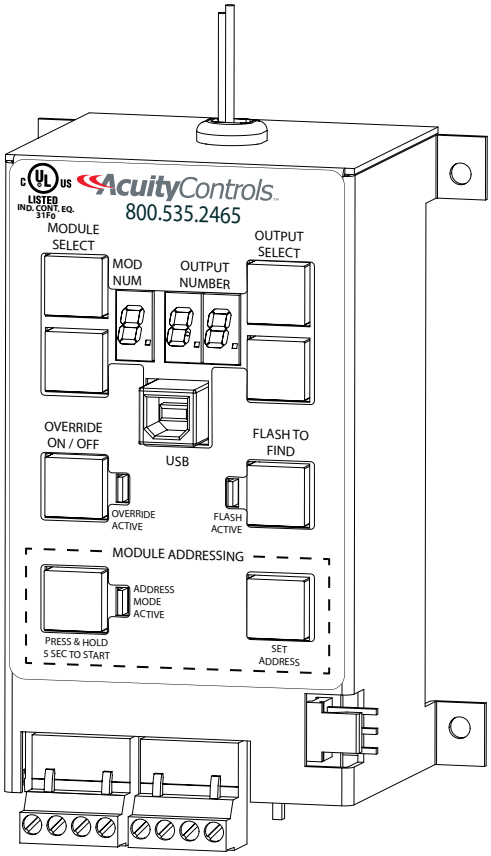
The LMP panel controller provides for programming and automated operation of the system. Operation can be stand alone (single cabinet) or networked with other LMP panels or building systems. Refer to the LMP System Operation Manual for programming instructions.

Before You Start

1. Disconnect power prior to installation or servicing.
2. The circuit breaker feeding the controller, the control breaker, MUST be in the off position before installing/removing the controller. See figure 2 for details.
   Do not remove/install the controller with the control breaker in the "on" position!
3. Install in accordance with the National Electrical Code and any other codes which may apply.
4. Use only as intended.
5. Use only accessories recommended by Acuity Controls.
6. Use only at the voltage listed on the product and component labels.

Important Installation Notes

1. Ambient Conditions:
   Maximum Ambient Temperature: 104°F/40° C
   Minimum Ambient Temperature: 32°F/0°C
   Relative Humidity: 10-90% Non condensing
   Indoor installation only
2. The LMP Controller is designed to be fed by 120-277 VAC, 50/60Hz.
   Max input: .2A
   24Vdc accessory power supply maximum ratings:
   Max Output: .42A
   The LMP Controller should be powered by the control breaker (the breaker closest to the controller) in LMP Main Lug (_ML) panels, or from an external circuit breaker in feed through (FT) panels.



LMP Panel Controller

Controller Installation

1. Install the LMP Controller in the LMP panel with the 4 retaining screws. Torque screws to 24 inch-lbs. See *Figure 1 for details.*
2. Connect the LMP controller input power wiring to the control breaker and neutral bar in LMP Main Lug panels, or to an external circuit breaker and neutral bar for LMP Feed Through panels. Torque circuit breaker screws to 19 inch- lbs and neutral bar screws to 24 inch-lbs. Trim excess wire length before connection. See Figures 1 & *3 for details.*
3. Connect the module data network plug to LMP controller. *See Figure 4 for details.*
4. If LM4R or LM4L modules are present, make sure the module power connector is plugged into the LMP controller. *See Figure 4 for details.*
5. Connect the digital device network to LMP controller. *See Figure 4 for details.*
6. Connect the LMP controller to the emergency module (if installed). *See Figure 5 for details.*
7. Install the controller cover in the LMP panel with the 4 retaining screws. Torque screws to 24 inch-lbs. *See Figure 2 for details.*
8. Turn on the control breaker to apply power to controller. Normal operation should begin.
9. Program the LMP Controller to job requirements. Refer to the LMP System Operation Manual for programming instructions.

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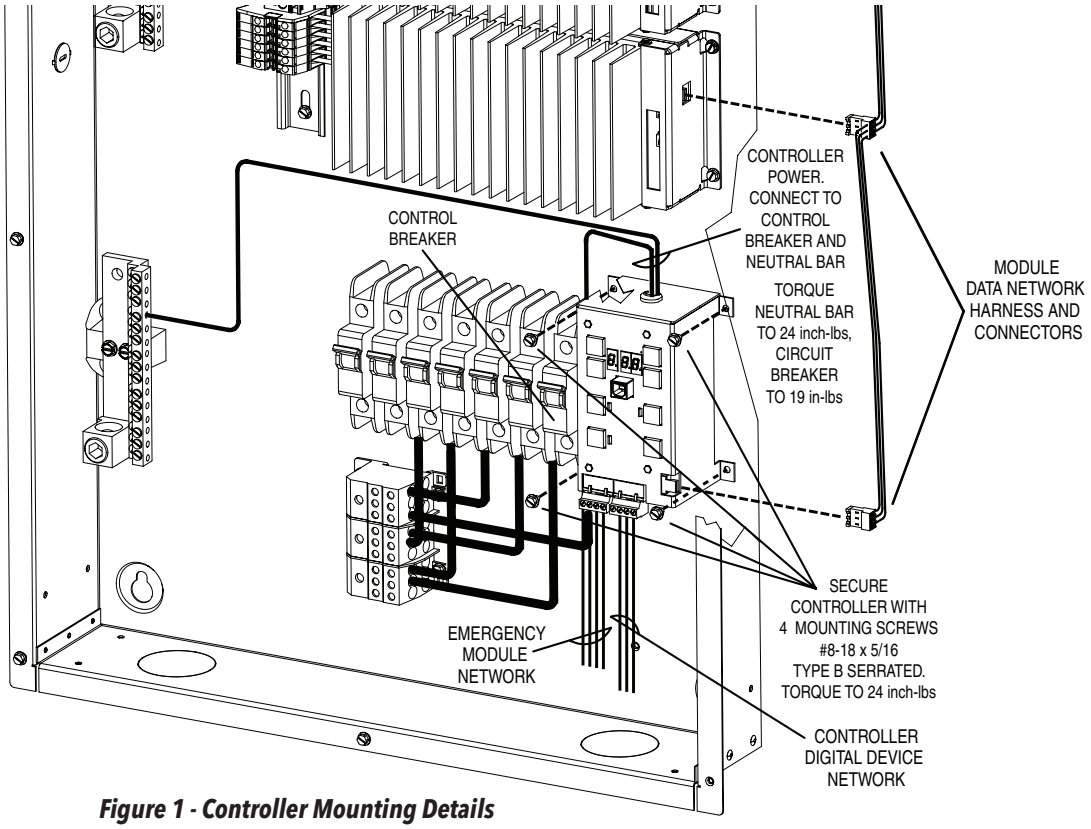
CONTROLLER POWER. CONNECT TO CONTROL BREAKER AND NEUTRAL BAR
CONTROL BREAKER
TORQUE NEUTRAL BAR TO 24 inch-lbs, CIRCUIT BREAKER TO 19 in-lbs
MODULE DATA NETWORK HARNESS AND CONNECTORS
SECURE CONTROLLER WITH 4 MOUNTING SCREWS #8-18 x 5/16 TYPE B SERRATED. TORQUE TO 24 inch-lbs
EMERGENCY MODULE NETWORK
CONTROLLER DIGITAL DEVICE NETWORK

Figure 1 - Controller Mounting Details

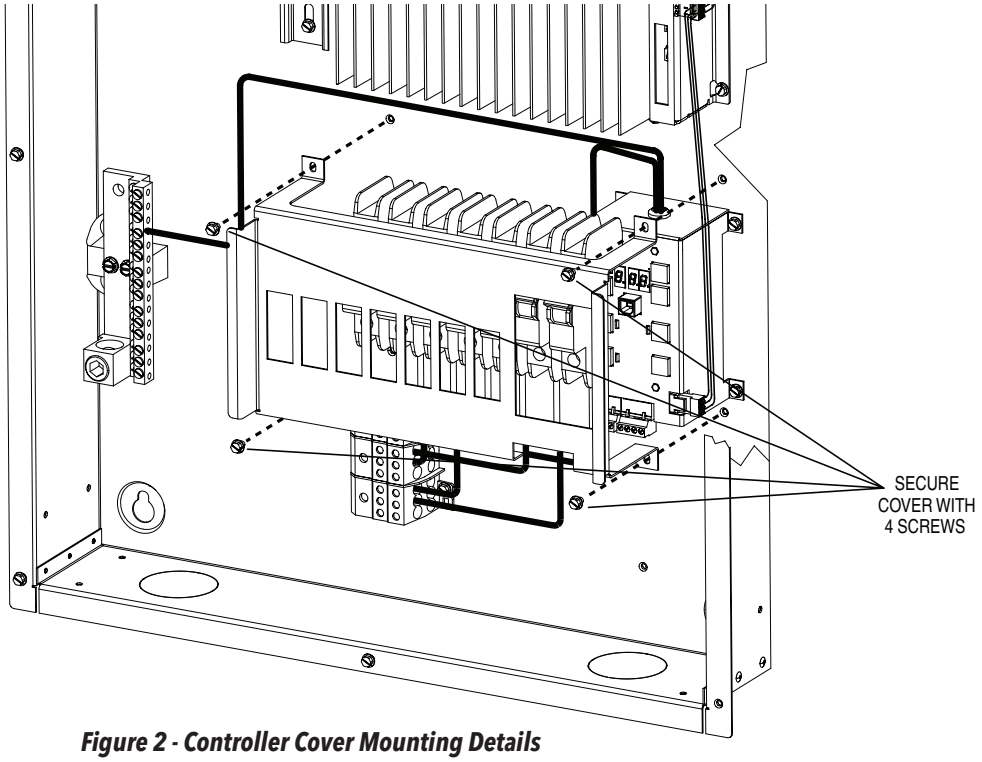

Figure 2 - Controller Cover Mounting Details

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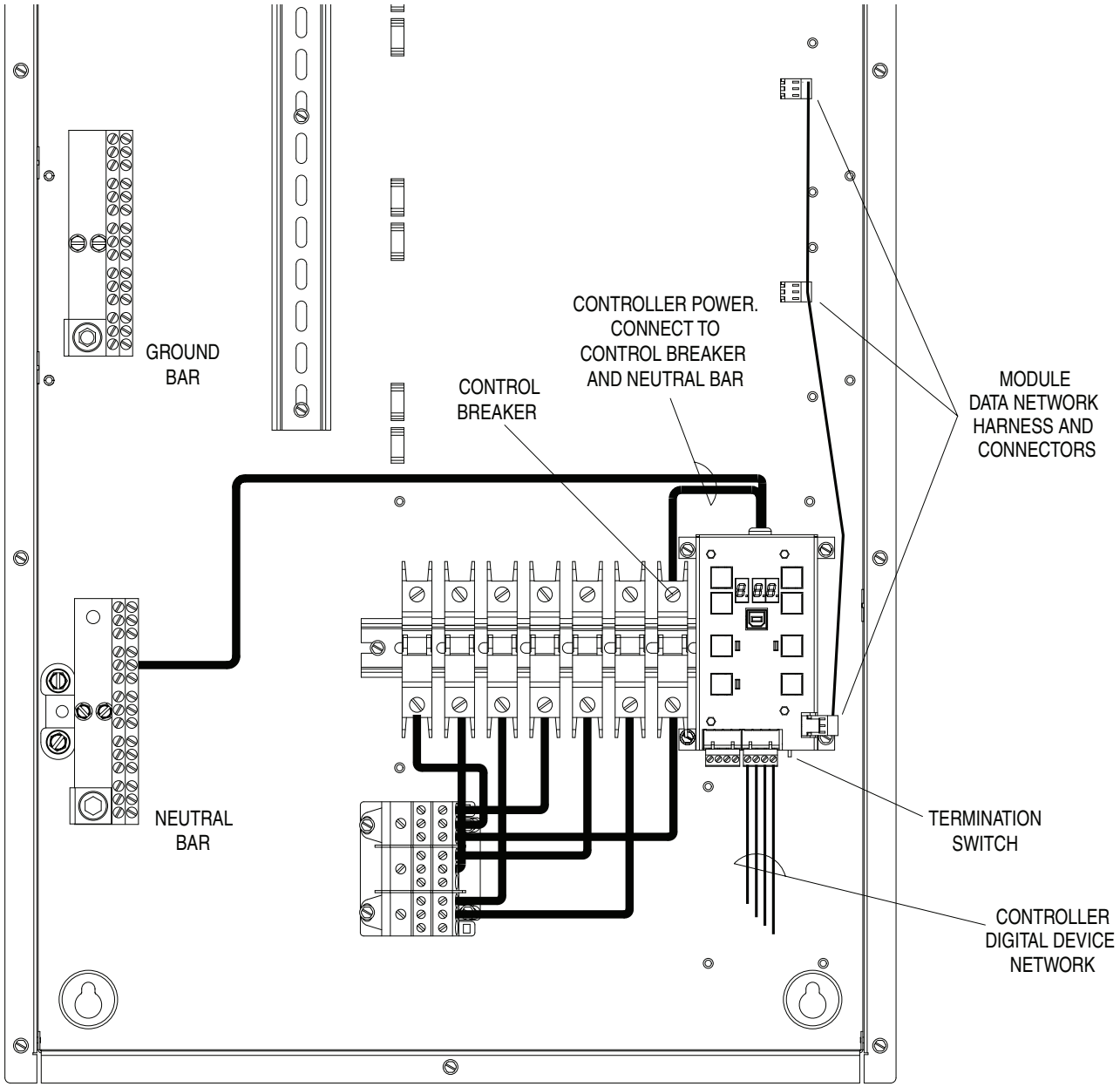

Figure 3 - Controller Power Wiring (Main Lug Panel Shown)

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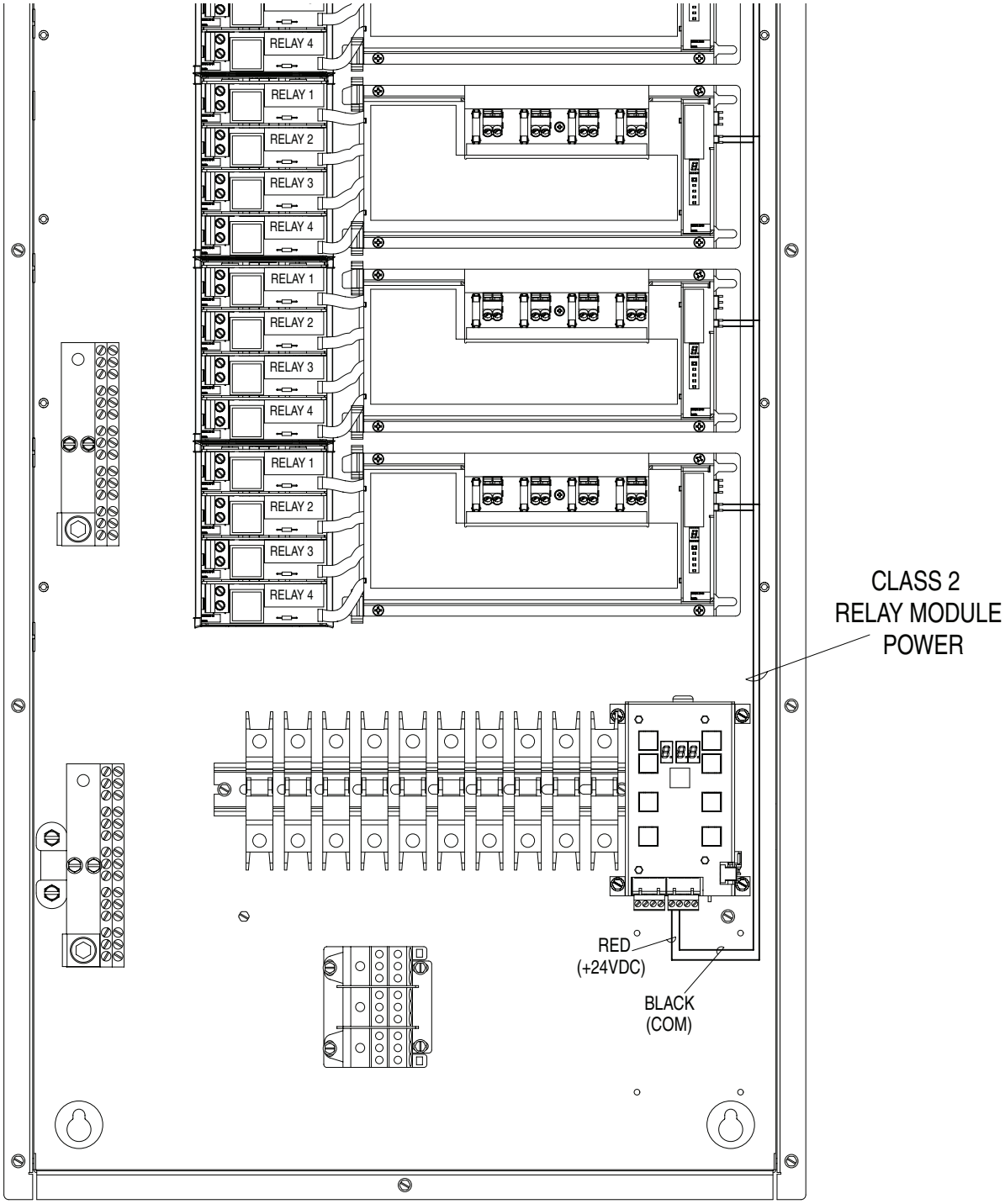

Figure 4 - LM4L/LM4R Relay Module Power Wiring

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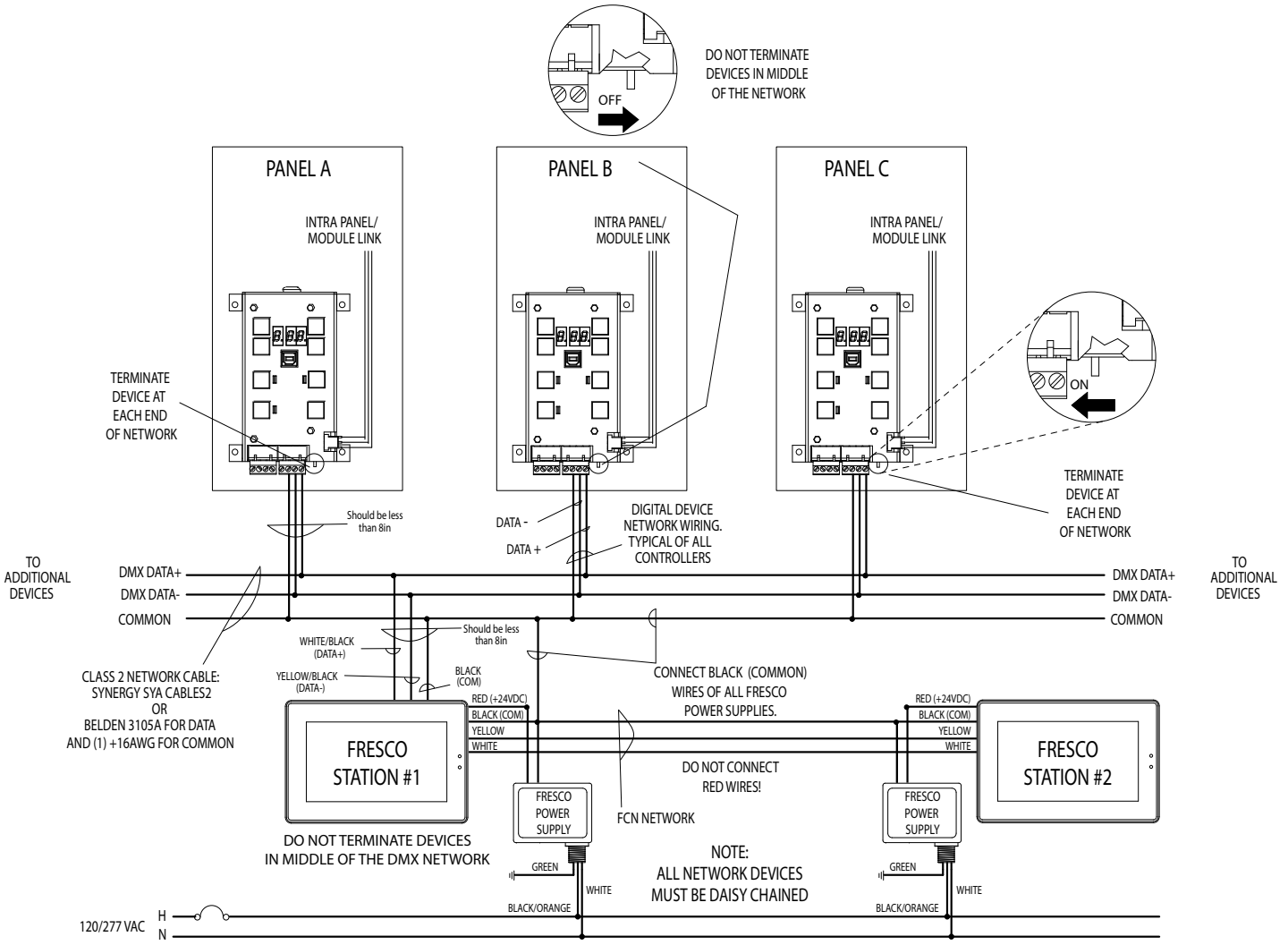

Figure 5 - Controller Digital Device Network Wiring

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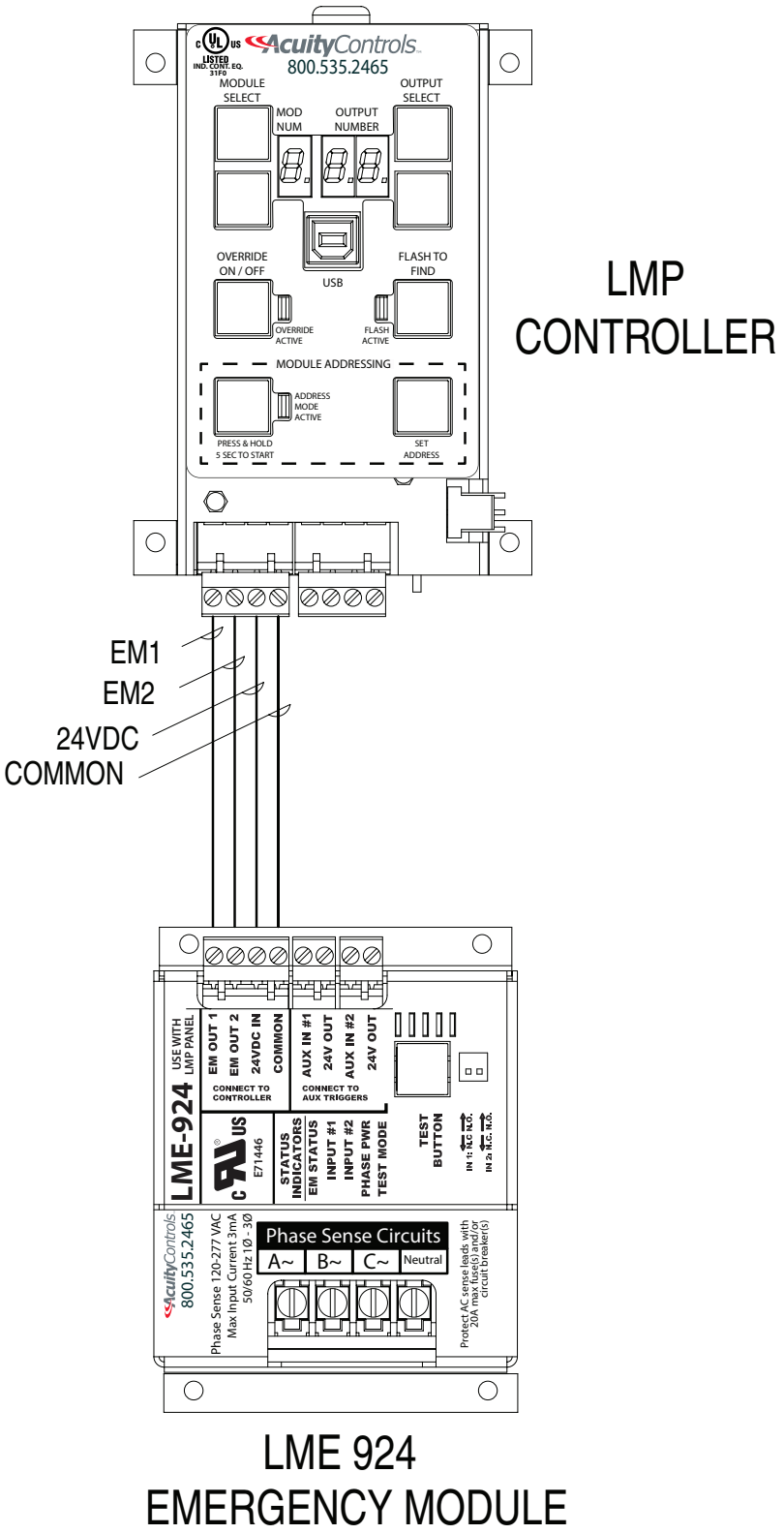

Figure 6 - Controller to Emergency Module Wiring

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Override Modules and Dimmers

To temporarily override dimmers:

1. Use the controller's MODULE SELECT UP / DOWN buttons to select a module address number.
2. Use the controller's OUTPUT SELECT UP / DOWN buttons to select a specific module output number (1, 2, 3, 4 or A for all) of the selected module. Cycle through the available outputs to select the output to be overridden, or select "A" for all outputs.
3. Once the desired module and output(s) have been selected, press the "OVERRIDE ON / OFF" button to override the selected output(s) to either 100% or 0%. If a dimmed output is currently set less than 100%, the first button press will override it to 100% and the second button press will override it to 0%. Press the button a third time to return the dimmer to normal control - the OVERRIDE ACTIVE LED will go out.
   If the output is at 100% prior to the initial press of the Override button, the 1st press will appear to do nothing. The second press will override the output to 0%, and the third press will release.
4. The output will remain at the selected override level until:
   - The output's level changes due to a network message (from Fresco station, etc)
   - There is an Emergency Override condition.

Flash to Find Modules and Dimmers

To locate the load(s) connected to an individual output or all dimmers on a module or a DALI loop:

1. Use the controller's MODULE SELECT UP / DOWN buttons to select the desired module.
2. Use the OUTPUT SELECT UP / DOWN buttons to select a specific module output number (1, 2, 3, 4 or A for all) of the selected module. Cycle through the available outputs to select the output to be flashed, or select "A" for all outputs.
3. Once the desired module and output(s) have been selected, press the FLASH TO FIND button to begin flashing the selected output(s) once per second.
4. Pressing the FLASH TO FIND button again or changing the output selection will immediately stop the flashing and return the output(s) to their previous levels.
5. To flash to find other outputs repeat this process starting at step 1.

The Flash to Find operation automatically stops after 30 minutes if the user has not manually stopped it.

In the event of an Emergency Override ON condition, the Flash to Find operation will stop and the output(s) will immediately be set to FULL ON. When the Emergency Override condition is cleared, the output(s) will be returned the level they were at prior to the Flash to Find operation.

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Manual Assignment of Module Addresses

With the controller and all modules powered:

1. Remove the cover from the LMP panel. Each 7 segment module address display needs to be observed during this procedure and cannot be seen with the cover on.
2. Enter addressing mode by pressing and holding the MODULE ADDRESSING button for at least 3 seconds.
3. The ADDRESS MODE ACTIVE LED will begin flashing.
4. One of the module's 7 segment address displays will begin flashing it's current address. This is the module currently selected to have it's address changed. Pressing the MODULE SELECT UP/DOWN buttons will select, in numerical order, the next module. Use the MODULE SELECT UP/DOWN buttons to select the desired module to have it's address changed.
5. Once the desired module is selected (its 7 segment display will be flashing), use the OUTPUT SELECT UP/DOWN buttons to select to the new address. This address will be displayed on the controller OUTPUT NUMBER display. When the correct address is displayed, press the SET ADDRESS button.
6. After pressing the SET ADDRESS button the address change will be confirmed by:
   The module displaying its new address.
7. After the two second confirmation display, repeat steps 3 - 6 for any additional modules.

   If either the module or the controller encounters an error when storing the new address, the controller will display "Err." You can either press the SET button another time, or repeat the process starting at step 3. The most likely cause for this error is attempting to select wrong or invalid module address.

8. Press the MODULE ADDRESSING button again to exit address mode. Or, when all modules have been addressed the controller will automatically exit address mode after the confirmation display sequence has completed.

Note: The controller will time out of address mode and return to normal operation after 2 minutes of no user activity.

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